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IN THE CLAIMS:

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1. (Original) A dynamic weight generator comprising:
a first memory for storing a PN code;
a second memory for storing a plurality of weights, said second memory being coupled to said first memory whereby data output by said first memory is used to address data stored in said second memory; and
a correlator for multiplying an input signal by data output by said second memory.
2. (Original) The invention of Claim 1 wherein said weights are finite impulse response filter correlation coefficients.
3. (Original) The invention of Claim 1 wherein said correlator includes two multipliers.
4. (Original) The invention of Claim 3 wherein a first of said multipliers is coupled to a source of an in-phase component of said input signal.
5. (Original) The invention of Claim 4 wherein a second of said multipliers is coupled to a source of a quadrature component of said input signal.
6. (Original) The invention of Claim 5 further including means for summing the outputs of said multipliers.
7. (Original) The invention of Claim 1 wherein said input signal is a GPS signal.

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8. (Currently Amended) A signal processing system comprising:
first means for receiving a signal and providing in-phase and quadrature signals in response thereto;

second means filtering said in-phase and quadrature signals with dynamic weights to provided weighted signals, said second means including a finite impulse response filter, said filter being implemented with a dynamic weight processor, said said dynamic weight processor including:

a first memory for storing a PN code;

a second memory for storing a plurality of weights, said second memory being coupled to said first memory whereby data output by said first memory is used to address data stored in said second memory; and

a correlator for multiplying an input signal by data output by said second memory; and

third means for generating nulling and beamsteering weights for said weighted signals.

9. (Original) The invention of Claim 8 further including means for equalizing said signals.

10. (Original) The invention of Claim 8 further including means for partitioning said in-phase and quadrature signals in plural bands.

11. (Original) The invention of Claim 10 further including means for processing at least one of said bands in accordance with a space frequency adaptive processing scheme.

12. (Original) The invention of Claim 11 further including means for performing space time adaptive processing within at least one of said bands.

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13 – 15. (Canceled)

16. (Currently Amended) The invention of Claim ~~15~~ 8 wherein said signal is a GPS signal.

17. (Original) A method for dynamic weight generation including the steps of:
storing a PN code in a first memory;
storing a plurality of weights in a second memory;
using an output of said first memory to access said second memory; and
multiplying an input signal by data output by said second memory.